

High School to College and Career Pathway: Post-Secondary

Area of Study: Skilled & Technical Education

Pathway: Electronics

Region: Mountainland	District:	School:	College/Institution: Utah Valley State College Articulation Agreement in place? Yes Name of Degree or Certificate: AAS in Electrical Automation And Robotics Technology Emphasis in Semiconductor & Maint. (65 Credits Required)
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High School				College		
Course Number	High School Suggested Academic Courses	H.S. Credit	College Credits	Course Number	College General Education Requirements	College Credits
ENGL	ENGLISH			ENGL	ENGLISH	2
				ENGL106A	Career Writing for Technology—A (2.0)	
MATH	MATHEMATICS			MATH	MATHEMATICS	5
				EART1050	Applied Electrical Math	
	HUMANTIES/FINE ARTS Complete one course from the following:		3		HUMANITIES/FINE ARTS Complete one course from the following:	3
HUM1010	Humanities * ^	1		HUM1010	Humanities Through the Arts (recommended)	
COMM1020	Public Speaking ^	1		COM1020	Public Speaking	
ART1010	Art/Art Foundations *	1		ART1010	Introduction to Visual Arts	
50.0406	Photo II *	.50		ART1050	Photography I	
ART1110	AP Drawing *	1		ART1110	Drawing I	
ART1340	3-D Design II *	1		ART1340	Sculpture I	
ART1350	Ceramics II *	1		ART1350	Ceramics I	
ARTH2720	Art History *	1		ARTH2720	History of Art from the Renaissance	
MUSC1010	Music Appreciation *	1		MUSC1010	Introduction to Music	
THEA1013	Introduction to Theater ^	1		THEA1013	Introduction to Theater	
THEA1023	Film/Video Production I or II *	1		THEA1023	Introduction to Film	
				→	Any other approved Humanities/ Fine Arts distribution course	
	SOCIAL/BEHAVIORAL/POLITICAL SCIENCE Complete one course from the following:		3		SOCIAL/BEHAVIORAL/POLITICAL SCIENCE Complete one course from the following:	3
GEOG1300	Survey of World Geography ^	1		GEOG1300	Survey of World Geography	

HIST1100	History of Civilization *	1		HIST1100	History of Civilization I	
HIST1700	AP US History *	1		HIST1700	American Civilization	
52.0211	Business Management *	.5		MGMT1010	Introduction to Business	
MGMT2020	Macroeconomics ^	1		MGMT2020	Macroeconomics	
POLS1100	American National Government ^	1		POLS1100	American National Government	
PSY1010	AP Psychology * Gen. Psych. ^	1		PSY1010	General Psychology	
SOC1010	Sociology * Intro to Sociology ^	1		SOC1010	Introduction to Sociology	
				→	Any other approved Social/Behavioral Science distribution course	
	BIOLOGY/PHYSICAL SCIENCE Complete one course from the following:		2		BIOLOGY/PHYSICAL SCIENCE Complete one course from the following:	2
BIOL1010	AP Biology * Gen. Biology ^	1		BIOL1010	General Biology	
GEO1010	Geology * Intro. To Geology ^	1		GEO1010	Introduction to Geology	
PHYS1010	Physics Honors/Engr. I *	1		PHYS1010	Elementary Physics	
PHYS1040	Astronomy *	1		PHYS1040	Elementary Astronomy	
				→	Any other approved Biology/Physical Science distribution course	
	PHYSICAL ED./HEALTH/SAFETY OR ENVIRONMENT		1		PHYSICAL ED./HEALTH/SAFETY OR ENVIRONMENT	1
HLTH1100	Personal Health & Wellness ^	1		HLTH1100	Personal Health & Wellness	
				→	Any other approved Physical Ed./Health/Safety or Environment distribution course	

Note: This is a regional agreement. Some classes and some concurrent enrollment agreements may not be available in your particular high school. See your individual school for specific program offering. **Note:** *= concurrent ^= distant

High School to College and Career Pathway: Post-Secondary

Area of Study: Skilled & Technical Sciences

Pathway: Electronics

High School				College		
Course CIP #	CTE Pathway Courses (2.00 credits for completion)	H.S. Credit	College Credits	Course #	College Major Course Requirements	College Credits
	Career and Technical Education Recommended Pathway Courses					
	(Students may select individual courses for exploration, or complete pathway for an in-depth focus.)					
	CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL					
Course #	Foundation Courses: (required)	Credit				
47.0105	Electronics I	.50				
47.0105	Digital Electronics	1.00				
	Elective Courses:					
15.1301	Drafting & Design Technology	.50				
46.0302	Electrician	.50				
2.0199	Student Internship (Critical Workplace Skills)	.50				
				EART1130 or ECT1010 or ECT1060 & ECT1070	Basic Electrical (4.0) or Basic Electronics—DC/AC (4.0) or Electrical Science (2.0) and Electrical Science (2.0)	4
				EART1180 or ECT101L ECT106L & ECT107L	Basic Electrical Lab (5.0) or DC/AC Circuits Laboratory (2.0) or Electrical Science I Laboratory and Electrical Science II Laboratory	.5 .5
				EART1260	Logic	2
				EART2110	Semiconductors Devices	6
				EART2160	Industrial Solid State Circuit	5
				EART2260 or ECT1150 and ECT1160	Advanced Logic or Digital Devices and Circuits (3.0) and Digital Devices and Circuits Laboratory (2.0)	3
				EMPHASIS:	Semiconductor Instrumentation & Maintenance (28 Credits)	
				EART1440	DC Motors	3
				EART144L	DC Motors Lab	1
				EART1450	AC Motors	3
				EART145L	AC Motors Lab	1
				EART2450	Hydraulics & Pneumatics Fundamentals	2
				EART245L	Hydraulics & Pneumatics Fundamentals Lab	1

				ECT1720	System Configurations	3
				ECT281R	Cooperative Work Experience (must repeat 7 times)	7
				ECT285 R	Cooperative Correlated Class	1
				EART2750 & EART275L or ECT2310	Programmable Controllers and Programmable Controllers Lab or Microprocessor and Computer Systems	4
				EART1250 or BIT1340	Electrical Wiring & Code or Electrical Codes	2
TOTAL Potential Credits Earned in High School			9	TOTAL Credits Required for Degree or Certificate		65

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